

The City of San Diego Water Department  
List of Approved Backflow Prevention Assemblies

Last Update: September 24, 2009

This list contains backflow prevention assemblies that have been evaluated and accepted for installation within the City of San Diego Water Department's jurisdiction for service protection. The City of San Diego makes no representation concerning other qualifications to the list of approved backflow prevention assemblies. This list is provided for information only. This is not intended as either an advertisement or warranty expressed or implied.

Fire Service Backflow Prevention Assemblies are Double Check Detector Assemblies (DCDA) or Reduce Pressure Principle Detector Assemblies (RPDA). All in this list have been evaluated with a specific meter as the detector element of the assembly. That specific meter is coded by a parenthetic letter shown immediately after the size designation. The coding of meters is shown below. Other meters having similar performance characteristics to meet the specifications are shown immediately after the original evaluation meter. The use of any other meter or modified bypass piping invalidates the approval.

Most of the approved assemblies utilize a line-size assembly, which is not a standard or stock approved assembly. Increased loads are required in these line-sizes to allow the assembly to accurately record low flow rates in the bypass meter. Therefore, various off the shelf components cannot be assembled and expected to perform satisfactorily. The bypass backflow preventer approved with the detector assembly is listed after the meter designation in italics. This is only for verification purposes. Should replacement parts or a complete by-pass be needed, the model number of the complete detector assembly should be used in ordering these components.

- A Hersey Model F-F 5/8" x 3/4"
- B Carlon 5/8" x 3/4"
- C Dandé Model D-3 5/8" x 3/4"
- D Gamon-Calmet 5/8"
- E Hays Acumeter 5/8" x 3/4"
- F Arad 5/8" x 3/4" (Master Meter)  
Schlumberger 5/8" x 3/4" Model
- G MBRF
- H Rockwell (Sensus) SR-II 5/8" x 3/4"
- I Hersey Model 430 - 5/8"  
ABB Model c700 5/8" x
- J 3/4"(formerly Kent)
- K Precision 5/8"
- L Neptune Trident 8 5/8"
- M Neptune T-10 5/8"
- N Badger Model 25 3/4"
- O Badger 5/8" x 3/4" Model M25
- P Hersey Model 430 Series II 5/8"
- Q Hersey Model MVR-30 3/4"
- R Neptune T-10 1"
- S Neptune T-10 1 1/2"

The backflow prevention assemblies shown on this list have been evaluated with a specific set of shutoff valves as an integral part of the assembly. The specific shutoff valves are coded by parenthetical code shown below the assemblies' model designations. The coding of shutoff valves is defined below. Other shutoff valves having similar performance characteristics, which permit the assembly to meet the Specifications are also shown immediately after the original shutoff valves. The use of any shutoff valve on a specific assembly, other than those listed for the specific assembly invalidates the approval. Assemblies listed with a Y in the "spare parts only" column may not include the shutoff valve designation.

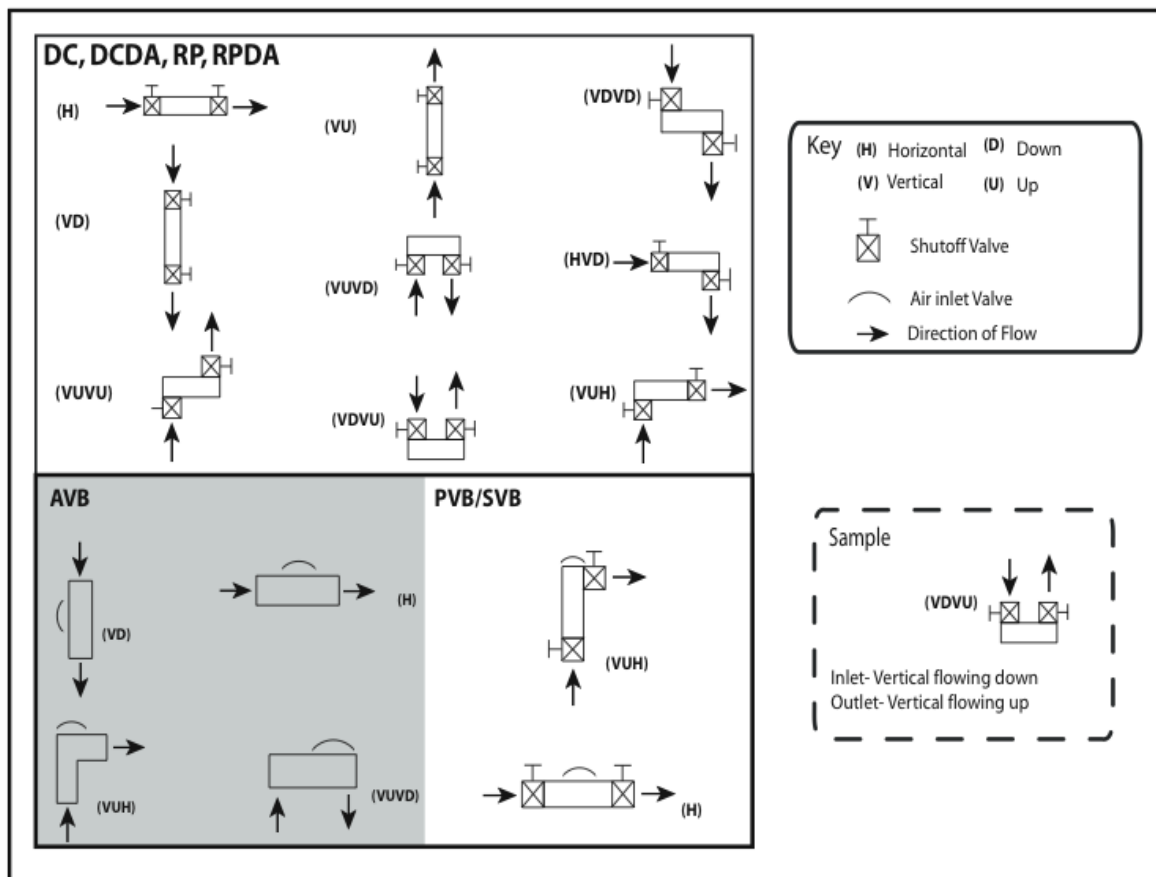
#### Identification of shutoff valves:

(aa)	American Figure 1-QT
(bb)	American Figure 17-NRS RW
(cc)	American Figure 370OSY RW
(dd)	Apollo Series 7B-QT
(ee)	AVK Series 25-NRS
(ff)	AVK Series 23_OSY (Nibco F607RW OSY
(gg)	Clow R/W Model 2640 (FxF) - NRS
	(formerly Clow R/W F6102-NRS)
(hh)	Clow R/W Model 2640 (FxF) - OSY
	(formerly Clow R/W F6136-OSY)
(ii)	Fortune Figure 620-QT (Formerly Figure 601
	Private labeled as: Ames, Buckner, Febco, Flomatic, Hersey and Wilkins
(jj)	Kennedy Ken Seal I-NRS
(kk)	Kennedy Ken Seal-OSY
(ll)	Kennedy Model KS-FW Figure 8561 (FxF) - NRS (2 1/2" - 10")
	Kennedy Model KS-RW Figure 7561 (FxF) - NRS (4" - 10")
	(formerly Kennedy Ken Seal II-NRS)
(mm)	Kennedy Model KS-FW Figure 8068 (FxF) - OSY (2 1/2" - 10")
	Kennedy Model KS-RW Figure 7068 (FxF) - OSY (4" - 10")
	(formerly Kennedy Ken Seal II-OSY)
(nn)	Lee Brass-QT
(oo)	Watts 405-RW
(pp)	Watts 408-OSY
(qq)	Mueller R/W HP NRS
(rr)	Mueller R/W HP OSY
(ss)	Toro.Orion Integral Ball Valve-QT
(tt)	American Flow Control (Waterous) Series 500-NRS
(uu)	American Flow Control (Waterous Series 500-OSY
(vv)	Watts Figure FBV (FBV-E)-QT [Ames Figure FBV (FBV-E)-QT]
(ww)	Watts G4000FDA-QT
(xx)	Watts Series 6080 (& 6080-E)-QT
(yy)	Matco-Norca 10RW (NRS)
(zz)	Matco-Norca 105U (OSY)
(aaa)	American Flow Control Series 2500-NRS
(bbb)	American Flow Control Series 2500-OSY
(ccc)	M&H Model 4067-02 (NRS)
(ddd)	M&H Model 4068-02(OSY)
(eee)	Stockham Model G-610 (OSY)
(fff)	Febco Series 620 QT
(ggg)	Fortune Figure 620U-QT
(hhh)	Watts Figure S-FBV (S-FBV-E)-QT
(iii)	Mueller Model A2360-NRS
(int)	Shutoff Valve is integral part of assembly
(jjj)	Febco Series 621-QT

(kkk)	Febco Series 620U-QT
(lll)	Mueller Model R2360-OSY
(mmm)	Conbraco Series IBVE-125-QT
(nnn)	Kennedy Model KS-FW Figure 8701 (FxF) - NRS (3" - 10") Post Indicator/Tapping
	Kennedy Model KS-RW Figure 7701 (FxF) - NRS (4" - 10") Post Indicator/Tapping
	(formerly Kennedy Ken Seal II Post Indicator/Tapping)
(ooo)	Ningbo Ball Valves (Febco Series 622-QT, Watts Series 855-QT & Wilkins Series 850-QT
(ppp)	Clow R/W Model 2639 (GxF) - NRS (2 1/2" - 3")
	Clow R/W Model 2638 (GxF) - NRS (4" - 10")
	(formerly Clow Series F6105-NRS)
(qqq)	Clow R/W Model 2639 (GxF) - OSY (2 1/2" - 3")
	Clow R/W Model 2638 (GxF) - OSY (4" - 10")
	(formerly Clow Series F6138-OSY)
(rrr)	Apollo Series 7B-308-01 (& 7B-308-31)
(sss)	Clow R/W Model 2639 (GxG) - NRS (2 1/2" - 3")
	Clow R/W Model 2638 (GxG) - NRS (4" - 10")
	(formerly Clow Series F6104-NRS)
(ttt)	Clow R/W Model 2639 (GxG) - OSY (2 1/2" - 3")
	Clow R/W Model 2638 (GxG) - OSY (4" - 10")
	(formerly Clow Series F6137-OSY)
(uuu)	Apollo Series 7H-QT
(vvv)	Clow R/W Model 2640 (FxF) - OSY Post Indicator/Tapping Valve
	(formerly Clow R/W F6136-OSY Post Indicator/Tapping Valve)
(www)	Clow R/W Model 2639 (GxF) - OSY (2 1/2" - 3") Post Indicator/Tapping Valve
	Clow R/W Model 2640 (GxF) - OSY (4" - 10") Post Indicator/Tapping Valve
	(formerly Clow R/W F6138-OSY Post Indicator/Tapping Valve)
(xxx)	Febco Series 622UQT
(yyy)	Victaulic Series 702 (Butterfly valves)
(zzz)	Kennedy Model KS-RW Figure 7092ABF (FxF) - OSY
	(formerly Kennedy Series 7092ABF-OSY)
(aaaa)	Union Model GV12 (flange by groove)-OSY
(bbbb)	Enbee Model GV12 (flange by groove)-OSY
(cccc)	Kennedy Model KS-RW Figure 7092 (FxF) - OSY
	(formerly Kennedy Series 7092 (GxF) - OSY)
(dddd)	Kennedy Model KS-RW Figure 7592 (FxF) - NRS
	(formerly Kennedy Series 7592ABF - NRS)
(eeee)	Kennedy Model KS-RW Figure 7592PABF (FxF) - NRS Post Indicator/Tapping Valve
	(formerly Kennedy Series 7592PABF-Post Indicator/Tapping Valve)
(ffff)	Watts 409RW (FxF)- OSY
(gggg)	Watts 409RW (FxF)- OSY
(hhhh)	Watts Figure LF-FBV-QT
(iiii)	Wilkins Series 850XL - QT
(jjjj)	Watts 409 RW 2" - OSY
(kkkk)	Kennedy Model KS-RW Figure 7093 (GxG) - OSY
(llll)	Kennedy Model KS-RW Figure 7593 (GxG) - NRS
(mmmm)	Kennedy Model KS-RW Figure 7093ABF (GxG) - OSY
(nnnn)	Kennedy Model KS-RW Figure 7593ABF (GxG) - NRS
(oooo)	Kennedy Model KS-RW Figure 7593PABF (GxG) - NRS Post Indicator
(pppp)	Watts Figure L-FBV-QT, Ames Figure L-FBV-QT, FEBCO Figure L-FBV-QT
(qqqq)	Kennedy Figure G300E - Butterfly Valve (4",6")
(rrrr)	Kennedy Figure 02G - Butterfly Valve (8")
(ssss)	Wilkins Model 48 (GXF) - NRS (2-1/2" - 10")
(tttt)	Wilkins Model 48 (FxF) - NRS (2-1/2" - 10")
(uuuu)	Wilkins Model 48 (GxG) - NRS (2-1/2" - 10") Post Indicator/Tapping Valve
(vvvv)	Wilkins Model 48 (GxF) - NRS (2-1/2" - 10") Post Indicator/Tapping Valve

(www)	Wilkins Model 48 (FXF) - NRS (2-1/2" - 10") Post Indicator/Tapping Valve
(xxx)	Wilkins Model 48 (GXG) - OSY (2-1/2" - 10")
(yyy)	Wilkins Model 48 (GXF) - OSY (2-1/2" - 10")
(zzz)	Wilkins Model 48 (FXF) - OSY (2-1/2" - 10")
(aaaa)	Wilkins Model 48 (GXG) - NRS (2-1/2" - 10")
(bbbb)	Milwaukee BB-SC100 - Butterfly Valve
(cccc)	Milwaukee BB-SCS02 - Butterfly Valve (with gearbox)
(dddd)	Flomatic Model NRS
(eeee)	Watts Model FBV-FP (FBV-E-FP)-QT

All backflow prevention assemblies considered for meter protection shall be Reduce Pressure Principal (RP) assemblies. All backflow preventers are approved in the horizontal position unless otherwise noted.



(RP) Reduce Pressure Principal Assembly  
 (RPDA) Reduce Pressure Principal Detector Assembly  
 (DCDA) Double Check Detector Assembly  
 ~ Only Spare Parts Available